- 41. (Amended) A method of determining motor oil quality, comprising the steps of:
- , determining a viscosity of the motor oil during operation of an internal combustion engine;

determining and evaluating a change of the viscosity of the motor oil determined in the viscosity determining step as a function of a temperature and frictional torque of the engine; and

determining starter torque, the viscosity change determining and evaluating step including the substep of determining the frictional torque in accordance with the starter torque.

- 43. (Amended) The method according to claim 41, wherein the viscosity change determining and evaluating step includes the substep of determining the frictional torque in accordance with the starter torque and a consumed engine acceleration power.
- 44. (Amended) A method of determining motor oil quality, comprising the steps of:

determining a viscosity of the motor oil during operation of an internal combustion engine;

determining and evaluating a change of the viscosity of the motor oil determined in the viscosity determining step as a function of a temperature and frictional torque of the engine; and

determining whether the change of the viscosity is outside a range of -15% to +50% of a predefined viscosity value at a same temperature, the viscosity change determining and evaluating step being performed in accordance with the step of determining whether the change of the viscosity is outside the range of -15% to +50% of the predefined viscosity value at the same temperature.

48. (Amended) A method of determining viscosity of motor oil of an internal combustion engine, comprising the steps of:

determining an engine frictional torque; and

determining the viscosity of the motor oil in accordance with the engine frictional torque;





wherein the engine frictional torque is determined in the engine frictional torque determining step in accordance with engine data available in an engine controller; and

wherein the engine data includes:

an engine torque generated in accordance with at least one of an injection time and a throttle valve position;

a signal that indicates whether a torque is transmitted to a drive train; and

at least one signal relating to an operating condition of at least one auxiliary unit driven by the engine.

49. (Amended) A method of determining viscosity of motor oil of an internal combustion engine, comprising the steps of:

determining an engine frictional torque; and

determining the viscosity of the motor oil in accordance with the engine frictional torque;

wherein the engine frictional torque is determined in the engine frictional torque determining step in accordance with engine data available in an engine controller; and

wherein the internal combustion engine is a diesel engine, the engine data including:

a signal that indicates whether a torque is transmitted to a drive train;

a load signal of a generator as a measure of an electric power generated by a generator;

an engine rpm;

an injected amount of fuel;

an engine temperature; and

an ambient temperature.

50. (Amended) A method of determining viscosity of motor oil of an internal combustion engine, comprising the steps of:

determining an engine frictional torque;